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I, LEANNE MYNOTT, MANAGER EXAMINATION SUPPORT AND SALES hereby certify that annexed is a true copy of the Provisional specification in connection with Application No. PS 1945 for a patent by DAVID JOHN THOMSON as filed on 26 April 2002.

WITNESS my hand this
Fifteenth day of May 2003

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A SUPPORT ADAPTOR FOR A BEARING PRESS

This invention is an adaptor which can be placed on a bearing press of suitable design for supporting an object in suspension whilst pressure is applied using the bearing press pressing shaft to separate or fit together two or more components of the object being worked on.

In known prior art , bearing presses have support members attached below the pressing shaft which is used for applying pressure to an object being worked on . Such support members normally being two parallel, spaced apart members with the top surfaces forming a horizontal plane.The purpose of the support members being to provide a means of support for one component of an object to be worked on, whilst another component of the object is removed or fitted by means of the bearing press pressing shaft.In some cases, however, the irregular shape or structure of an object renders a bearing press incapable of providing the necessary support for one component of the object so that another component can be either removed or fitted.

The object of the present invention, is to provide a means by which some such objects can be easily and securely supported on a bearing press while the pressing shaft is used to remove or fit components.

The preferred embodiment of the invention is described as follows:
An elongate, rectangular header support plate with a round hole in the cetre and slotted holes in either end through which are placed two elongate suspended bolts secured by nuts contacting the top surface of the header support plate; said bolts each having fixed to the opposite end, a stirrup shaped mounting fitting with two parallel sides and a downward facing open end; each side having a hole through which is passed a horizontal bolt secured by a nut on one end.

In use, the preferred embodiment of the invention is placed on a bearing press of suitable design with the header support plate centrally located in a horizontal position on top of the bearing press frame with the vertical pressing shaft of the bearing press passing downward through the central hole of the header support plate without being connected to the header support plate and thus able to be used freely and independant of the header support plate to apply pressure to an object being worked on. At either end of the header support plate , through the slotted holes provided, is located an elongate , suspended bolt extending downward, vertically and fitted to the header support plate by means of a nut screwed onto the threaded end of the suspended bolt and making contact with the top surface of the header support plate, but not causing the bolt to be fixed tightly to the header support plate so that both suspended bolts are free to be adjusted independantly , horizontally within the slotted holes ,and adjusted independantly, vertically by screwing the nuts either clockwise or counter - clockwise as required.At the opposite , downward facing end of each suspended bolt, is fixed a stirrup shaped , downward facing, open ended mounting fitting (herinafter referred to as " the stirrup") with a hole in each side. The mounting points of the object to be worked on, are placed into the stirrups and fixed in place by means of bolts being passed through the stirrups and holes in the mounting points of the object to be worked on and securely tightened by means of nuts on the threaded ends of the bolts. The elongate suspended bolts may then be adjusted to locate the component of the object to be worked on, centrally beneath the vertical pressing shaft of the bearing press in a horizontal position, whereupon the object to be worked on is now suspended above the support arms of the bearing press and ready for pressure to be applied by means of the pressing shaft of the bearing press to either remove or fit a component as required.

Other embodiments of the invention may be made without departing from the fundamental spirit and scope of the innovation.